Final test (zachet 1 semester)

- 1. Law of dynamics (Newton's law 2)
- 2. Gravity force
- 3. Hook's law
- 4. Kinetic friction
- 5. Angular velocity
- 6. Stokes' law
- 7. Kinetic energy
- 8. Potential energy
- 9. Power
- 10.Momentum
- 11.Pressure
- 12.Ideal gas law
- 13. Angular acceleration
- 14.Torque
- 15. Momentum of inertia of a point particle
- 16. Rotational kinetic energy
- 17.Density
- 18. Archimedes' principle (buoyant force)
- 19. Conservation of flow (law)
- 20.Liquid pressure (in liquid columns)
- 21.Poiseuille's law
- 22. Reynolds number
- 23.Bernoulli's principle
- 24. First law of thermodynamics
- 25. Specific heat capacity
- 26. Efficiency of heat engine
- 27. Efficiency of Carnot engine
- 28.Height to which capillary action will lift liquid
- 29. Gravitation force

Example of answer:

acceleration

$$a = \frac{v_f - v_i}{\Delta t}$$

a is acceleration $[m \cdot s^{-2}]$

 v_f is final speed [m·s⁻¹]

 v_i is initial speed [m·s⁻¹]

 Δt is time interval [s]